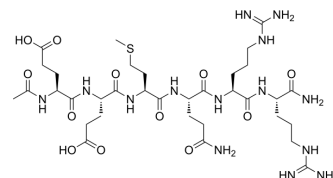


Argireline

Cat. No.:	HY-P0033
CAS No.:	616204-22-9
Molecular Formula:	C ₃₄ H ₆₀ N ₁₄ O ₁₂ S
Molecular Weight:	888.99
Sequence Shortening:	Ac-EEMQRR-NH ₂
Target:	Others
Pathway:	Others
Storage:	Sealed storage, away from moisture
	Powder -80°C 2 years
	-20°C 1 year

* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro	H ₂ O : 100 mg/mL (112.49 mM; Need ultrasonic)					
	Preparing Stock Solutions	<div><div>Solvent</div><div>Concentration</div></div>	Mass	1 mg	5 mg	10 mg
		1 mM	1.1249 mL	5.6244 mL	11.2487 mL	
		5 mM	0.2250 mL	1.1249 mL	2.2497 mL	
	10 mM	0.1125 mL	0.5624 mL	1.1249 mL		
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: PBS Solubility: 50 mg/mL (56.24 mM); Clear solution; Need ultrasonic					

BIOLOGICAL ACTIVITY

Description	Argireline (Acetyl hexapeptide-3) is a non-toxic, skin-permeable, antiwrinkle peptide. Argireline significantly inhibits Ca ²⁺ dependent neurotransmitter release (acetylcholine) at the neuromuscular junction. Argireline has antiwrinkle and anti-aging activity ^{[1][2][3]} .
In Vitro	The incubation of Argireline solution in different concentrations with human embryonic kidney HEK-293 (IC ₅₀ of 34.862 μM) and neuroblastoma IMR-32 cells (IC ₅₀ of 68.458 μM) for 48 h have dose dependent antiproliferative effect. Argireline solution incubated in different concentrations with HSF has a dose-dependent antiproliferative effect on those cells. Cellular proliferation is not effected in Argireline low concentration ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	Argireline is applied to the aged mice twice daily for 6 weeks. There is an improvement in the histological structure of skin

tissue in the aged mice; the amount of type I collagen fibers increased, while that of type III collagen fibers decreased. Argireline could improve the histological structure of skin tissue and rejuvenate the aging skin^[3]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Blanes-Mira C, et al. A synthetic hexapeptide (Argireline) with antiwrinkle activity. *Int J Cosmet Sci*. 2002 Oct;24(5):303-10.
- [2]. Grosicki M, et al. The study of cellular cytotoxicity of argireline - an anti-aging peptide. *Acta Biochim Pol*. 2014;61(1):29-32.
- [3]. Wang Y, et al. The anti-wrinkle efficacy of Argireline. *J Cosmet Laser Ther*. 2013 Aug;15(4):237-41.
-

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA